FILE NOTATIONS		- Dan 2
Entered in NID File	Checked by Chief	O WO
Entered On S R Sheet	Copy NID to Field O fice	
Location Map Pinned	Approval Letter	Note that the same of the same
Card Indexed	Disapproval Letter	***************
I W R for State or Fee Land		
COMPLETION DATA:	Location Inspected	
OW WW TA	Bond released	
GW OS PA	State of Fee Land	***************************************
Driller's Logs (No. ) LOGS FI	LED	
E E-1	GR M	icro
Lat Mi-L Sonic	Others.	

SUBMIT IN "ICATE" (Other in. s on

Form approved. Budget Bureau No. 42-R1425.

edt

STEEL

## UNITED STATES

reverse sign DEPARTMENT OF THE INTERIOR 5. LEASE DESIGNATION AND SEBIAL NO. **GEOLOGICAL SURVEY** 6. IF INDIAN, ALLOTTEE OR TRIBE NAME APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK ζď چطرس AGREEMENT NAME DEEPEN PLUG BACK DRILL 🕱 iez Eu 181 è b. TYPE OF WELL SINGLE ZONE MULTIPLE rpeg. OIL WELL 2. NAME OF OPERATOR OR LEASE NAME GAS WELL ம்பெர் ATTENTION OF THE STATE OF THE S отник i Bita WELL NO 33 ZOLLER AND DANNESERG 97 3. ADDRESS OF OPERATOR OR WILDCAT 219 Patterson Bullding, Denver, 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\*) south of the north, 660 feet wast of the east d zone 14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\* 12. FOUNTY OR PARISH DIS. STATE 6-1/2 miles in 15. DISTANCE FROM PROPOSED northeast of Ameth School ITAH fortioes, 16. NO. OF ACRES IN LEASE NO OF LOCATION TO NEAREST тоўнц 7 PROPERTY OR LEASE LINE, FT.
(Also to nearest drlg. line, if any) 2560 660 feet Φ Perio Perio 19. PROPOSED DEPTH 20. ROTARY OR CABLE 18. DISTANCE FROM PROPOSED LOCATION\* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. ੋਂ मुद्र 6150WORK WILL START\* 21. ELEVATIONS (Show whether DF, RT, GR, etc.) 1964 4853 **Gro**und ţ,  $\overline{23}$ . PROPOSED CASING AND CEMENTING PROGRAM 446 11 BELL œ õ QUANTITE OF CEMENT 3 WEIGHT PER FOOT SETTING DEPTH SIZE OF HOLE SIZE OF CASING <u>150 føet</u> 17-1/2" 13-3/8ths 324 L500 feet <del>8-9/8th</del>e a faiofile storight

phirms when we would be to total depth

7-7/8tis total depth

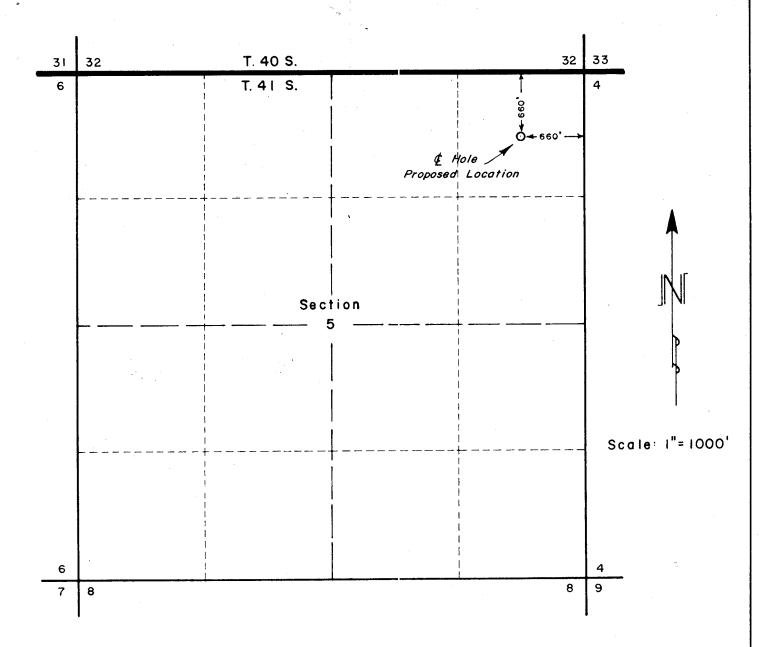
All above of the storight storights

All above of the stori qiatancea ertain well 2/or State lay 30 30 perform Hydraulic blow-out-preventers will be in location WOI 90 rescilly be state regulations, anpeednent reservoir Siste requirements, ge well, concerning : peen ( 20 0,0 Ġ IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug buck, give data on present productive zone IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug blick, give data on present pludicities and the proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true refition erings. One blowout preventer program, if any. HO SE ZOLLER AND DANNEBERG 23 9 (This space for Federal or State office use) and 0 OT Š APPROVAL DATE State PERMIT NO. edera 0.5 or s the roads 59misido item" APPROVED BY TITLE met i resur. Hedera. applicapi O.

3Ep 8 9 1864

CONDITIONS OF APPROVAL, IF ANY:

\*See Instructions On Reverse Side



### WELL LOCATION: Zoller & Danneberg - #: 1 South Ismay

Located 660 feet South of the North line and 660 feet West of the East line of Section 5, Township 41 South, Range 26 East, Salt Lake Base & Meridian. San Juan Co., Utah Existing ground elevation determined at 4787 feet based on adjoining well locations.

I hereby certify the above plat represents a survey made under my supervision and that it is accurate to the best of my knowledge and belief.

Trederich HReed

FREDERICK H. REED
Registered Land Surveyor
State of Utah # 2689



ZOLLER & DANNEBERG Denver, Colorado

WELL LOCATION

Section 5 - T. 41 S. - R. 26 E.

San Juan Co., Utah

CLARK - REED & ASSOC.

DATE Sept. 24, 1964 FILE NO: 64066

#### September 29, 1964

Zoller and Danneberg 219 Patterson Building Denver, Colorado

Re: Notice of Intention to Drill Well No. SOUTH ISMAY #1, 660' FNL & 660' FEL of Sec. 5, T. 41 S., R. 26 E., San Juan County, Utah.

#### Gent lemen:

Insofar as this office is concerned, approval to drill the above mentioned well is hereby granted.

As soon as you have determined that it will be necessary to plug and abandon this well, you are hereby requested to immediately notify the following:

> PAUL W. BURCHELL, Chief Petroleum Engineer Office: DA 8-5771 or DA 8-5772 or DA 8-5773 Home: CR 7-2890 - Sait Lake (ity, Utah

This approval terminates within 90 days if this well has not been spudded within said period.

Enclosed please find Form OGCC-8-X, which is to be completed if water sands (aquifers) are encountered while drilling, particularly assessable near surface water sands. Your cooperation with respect to completing this form will be greatly appreciated.

Very truly yours.

OIL & CAS CONSERVATION COMMISSION

CIEON B. FEIGHT EXECUTIVE DIRECTOR

#### CBF: enp

- cc: P. T. McGasth, District Engineer
  - U. S. Geological Survey, Farmington, New Mexico
  - H. L. Coonts, Petroleum Engineer
  - 011 & Gas Conservation Commission, Mosb, Utah

January 13, 1965

Zoller and Danneberg 219 Patterson Building Denver, Colorado

> Re: Well No. South Ismay #1, Sec. 5, T. 41 S., R. 26 E., San Juan County, Utah.

#### Gentlemen:

Our records indicate that you have not filed a Monthly Report of Operations for the months of October and November, 1964, for the subject well. Rule C-22(1), General Rules and Regulations and Rules of Practice and Procedure, Utah State Oil and Gas Conservation Commission, requires that said reports be filed on or before the sixteenth (16) day of the succeeding month. This report may be filed on Form OGCC-1b, (U. S. Geological Survey Form 9-331, "Sundry Notices and Reports on Wells"), or on company forms containing substantially the same information. We are enclosing forms for your convenience.

Your immediate attention is required in this matter.

Very truly yours,

OIL & GAS CONSERVATION COMMISSION

KATHY G. WARNER RECORDS CLERK

KGW: sch

Encl: Forms

S

March 23, 1965

Zoller & Dannebarg 219 Patterson Building Denver, Colorado

> Re: Well No. South Ismay #1, Sec. 5, T. 41 S., R. 26 E., San Juan County, Utah.

Gentlemen:

This letter is to advise you that the "Well Completion or Recompletion Report and Log" for the above mentioned well is due and has not been filed with this Commission as required by our rules and regulations.

Please complete the enclosed Forms OGCC-3, "Well Completion or Recompletion Report and Log", in duplicate and forward them to this office and soon as possible.

Thank you for your cooperation in this request.

Very truly yours,

OIL & GAS CONSERVATION COMMISSION

KATHY G. WARNER RECORDS CLERK

kgw

Enclosure: Forms

Kindach Exploration #1 mc Elmo Mera Lield Perforated 5540'-45'
Porosity: From Somic (48 4 sec) = 3% (?) Water 90,000 pom Rw= .05 RT = 42 from log from Tayor Dony Undish report Porosity From Ismay and 9% F= 200 100  $S = \sqrt{(F)(.05)} = \sqrt{\frac{10}{42}} = \sqrt{.24} = .49$ Sa=49% 50 = 5/%

## BEFORE THE O'LL AND GAS CONSERVATION COMMISSION OF THE STATE OF UTAH

 Lunkannann	سيستنفضه فالمنسب		<u> </u>
		4	
	i otas		_

IN THE MATTER OF THE AREAL EXTENSION OF THE COMMISSION'S ORDER OF DECEMBER 9, 1957, FOR THE ISMAY POOL, SAN JUAN COUNTY, UTAH, WITH REFERENCE TO THE KNOWN PRODUCING ZONES OF THE HERMOSA FORMATION.

CAUSE NO. 109-1

AMENDED NOTICE OF HEARING

THE STATE OF UTAH TO ALL OPERATORS, TAKERS OF PRODUCTION, MINERAL AND ROYALTY OWNERS AND OTHER PERSONS IN THE STATE OF UTAH, AND PARTICULARLY ALL PERSONS INTERESTED IN THE ISMAY FIELD, SAN JUAN COUNTY, UTAH!

Notice is hereby given that the Oil and Gas Conservation Commission of the State of Utah will conduct a hearing in its office, 340 East South Temple - Suite 301, Salt Lake City, Utah, on Thursday! March 11, 1965 at ten o'clock AiM., on the application of the Kimbark Exploration Company, in the above entitled cause at which time all persons, firms, and corporations may, if they so desire, appear and be heard.

Notice is further given that the purpose of said hearing is to determine whether the Commission should enter its order:

1. directing that the Commission's order of December 9, 1957, in Cause No. 9, and the Commission's order of May 9, 1961, in Cause No. 54, be extended to include the following described lands, which are believed to contain, in the known producing zones of the Hermosa Formation, accumulations of oil and gas which are common to the initially spaced area of the "Isnay Pool":

#### Township 41 South, Range 26 East, SLBM

Section 4: W2 Section 5: All Section 6: All

- 2. establishing 80-acre drilling units and permitted well locations for such additional lands
- 3. making such additional lands in all things subject to the provisions of the December 9, 1957, and May 9, 1961, orders.

DATED this 25th day of January, 1965.

STATE OF UTAH

OIL AND GAS CONSERVATION COMMISSION

CLEON B FEIGHT

EXECUTIVE DIRECTOR & SECRETARY

Form 9-330 PC (Rev. 5-63)  $2fl_{\alpha_{i\cap k}}$ UN TED STATES SUBMIT IN DUPL' ે મેં Form approved. Budget Bureau No. 42-R355 5 DEPARTMENT OF THE INTERIOR er inutrib. 5. LEASE DESIGNATION AND SERIAL NO. GEOLOGICAL SURVEY 14-20-603-708 WELL COMPLETION OF RECOMPLETION REPORT AND LOG \* 6 IF INDIAN, ALLOTTEE OR TRIBE NAME TYPE OF VEIL Mavajo WELL T WELL DRY [] Other NIT AGREEMENT NAME b. TYPE OF COMPLETION NEW T Other \_\_\_ FARM OR LEASE NAME NAME OF OPERATOR So. Ichay Zoller & Danneberg & Kimbert Emploration Com 3. ADDRESS OF OPERATOR Kimbark 201 University Blvd. Denver 6, Colorado 10. FIELD AND POOL, OR WILDCAT 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements). At surface KE KE II. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA AR RE At top prod. interval reported below At total depth Sec. 5 T 41 8 14. PERMIT NO. DATE ISSUED 12. COUNTY OR 13. STATE Sen Juan 15. DATE SPUDDED 16. DATE T.D. REACHED 17. DATE COMPL. (Ready to prod.) 18. ELEVATIONS (DF, RKB, RT, GR, ETC.)\* 19. ELEV. CABINGHEAD 10/4/64 10/25/64 11/16/64 478TOL 4799KB 4787 20. TOTAL DEPTH, MD & TVD 21. PLUG, BACK T.D., MD & TVD 22. IF MULTIPLE COMPI., 23 INTERVALS ROTARY TOOLS CABLE TOOLS 5553 5549 0-852 0 24. PRODUCING INTERVAL(S), OF THIS COMPLETION TOP, BOTTOM, NAME (MD AND TVD). 25. WAS DIRECTIONAL SURVEY MADE 8840-5545 Perfs. Lower Ismay No 26. TYPE ELECTRIC AND OTHER LOGS RUN 27. WAS WELL CORED IES- CR. S. C. No 28. CASING RECORD (Report all strings set in well) CASING SIZE WEIGHT, LB./FT. DEPTH SET (MD) HOLE SIZE CEMENTING RECORD AMOUNT PULLED 13 3/8" 48 174 153 150 8 5/8 24 1422 II 100 Õ 54 15.50 5552 100 29. LINER RECORD TUBING RECORD TOP (MD) SACKS CEMEN®\* SCREEN (MD) SIZE DEPTH SET (MD) PACKER SET (MD) 5460 31. PERFORATION RECORD (Interval, size and number) ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC. 22. DEPTH INTERVAL (MD) AMOUNT AND KIND OF MATERIAL USED 5540-5645 with 20 MCF II Kone Shote 554 D-45 500 mals. 33. PRODUCTION DATE FIRST PRODUCTION PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) well STATUS (Producing or shut-in) 11/13/64 Flowing DATE OF TEST HOURS TESTED CHOKE SIZE PROD'N. FOR TEST PERIOD OIL-BBL. WATER--BBL GAS-OIL RATIO 11/15/64 24 17/64 271 1622 47 **SCEN** PLOW. TUBING PRESS. CASING PRESSURE CALCULATED 24-HOUR RATE OIL-BBL. GAS-MCF. WATER-BBL OIL GRAVITY-API (CORR.) 500 800 271 1.000 47 379 34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) TEST WITNESSED BY Fuel for treator Ben Stevens 35. LIST OF ATTACHMENTS 36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

\*(See Instructions and Spaces for Additional Data on Reverse Side)

President

DATE NOT. 20, 1964

Kimbark Exploration Co.-Agent

ā.

# NSTRUCTIONS

and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.
If not filed prior to the time this summary record is submitted, cypies of all currently available logs (drillers, geologists, sample and cyre analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35. or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from the local Federal and 24, and 23, below regarding separate reports for separate completions. General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a bedens or a State agency, item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements

Hem 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.

Hems 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, anequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval

| Nadditional interval to be separately produced, showing the additional data pertinent to such interval

| Nadditional interval to be separately produced, showing the additional data pertinent to such interval

| Nadditional interval to be separately produced. (See instruction for items 22 and 24 above.)

DGIC MARKERS		MEAS. PEPTH TRUE VERT. DEPTH	1620 2422 2686 2718 2810 4636		8 I NAL	•
38. GEOLG	HION USED, TIME TOOL, OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES  BOTTOM  BOTTOM  BOTTOM  BOTTOM	NAME	Chiale Bhingrum Monskopi Dechelly Organ Bock		,	
NTS THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUBIN OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES	DESCRIPTION CONTRACTOR	Figure of Porous Limbertons	#1 8637-50 32 . Clean sound 2040 011 and 3 Whelow sub 19 1 hr.	FF 623-1247# BRT 1360 Water-90,000 PPM		
ROSITY AND CONTE	MOLTOG			toto skiegos		36
OUS ZONES: TANT ZONES OF PO. TESTED, CUSHION		5537				
37. SUMMARY OF POROUS ZONES SHOW ALL IMPORTANT ZONES DEPTH INTERVAL TESTED, CUS FORMATION TOP		Louisi Isman	Aller Brown State Control of the Con			•

U.S. GOVERNMENT PRINTING OFFICE: 1963--- O-683636

Form approved			
Form approved Budget Bureau	No.	42-R7	14.4.

## UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

ALLOTTEE
Truse Navajo
LEASE NO. 14-20-503-708

## LESSEE'S MONTHLY REPORT OF OPERATIONS

The following is a correct report of operation wells) for the month of	Co	npany	WITEL 8	namienar R						
SEC. AND TWP. RANGE WELL DAYS PRODUCED BARRELS OF OIL GRAVITY (In the second se	Sig	ned	UTL _	selew ble						
Phone .		U 841	)21				Ag	ent's title	PT	esident
SEC. AND	Twr.	RANGE			BARRELS OF OIL	GRAVITY	Cv. Fr. or Gas (In thousands)	Gallons of Gasoline Becovered	BARRELS OF WATER (If none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gesoline content of gas)
_	41	3 26	<b>8</b> 1	0						Drilling
				·			·			·
					· ·					

duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

Form 9-329 A (December 1948)

16-26231-7 U.S. GOVERNMENT PRINTING OFFICE

TIPMIT	IN	DUPLICATE*

C	T	Δ	Τ	F	OF	UT	ΔЫ

(See other instructions on reverse side)

<b>i.</b>	LEASE DESIGNATION AND	SERIAL	NO.

The second secon		
OIL & GAS	CONSERVATION	COMMISSION

14-20-603-708

i i					- 1 1			14-20-	-603-708				
WELL CO	MPLETIC	ON OR	RECOMP	LETION I	REPORT	AND	LOG*		ALLOTTEE OR TRIBE NAM				
1a. TYPE OF WEL	the state of the state of the state of	OIL X	GAS 🗀		Long Charles Congress	131		7. UNIT AGREE					
b. TYPE OF COM	DI ETION.	WELL	WELL	DRY L	Other		;	107					
NEW 💢	work	DEEP-	PLUG	DIFF. RESVR.	Other	: 12		S. FARM OR LE	CASE NAME				
WELL	OVER L	EN L	BACK L	RESVR.	Other	1 3	1	So. I	[smav				
•		4.077						9. WELL NO.					
Zoller &	Danne de : BATOR	rg AGE	NT-Kimpar	K EXPLOR	ation c	ombanî	7	_ 1	<u>.</u>				
201 Unive	rsity B	lvd. De	nver 6, C	colorado ·	- Kimba	rk Exp	1. Co.	10. FIELD AND	POOL, OR WILDCAT				
4. LOCATION OF WEI	LL (Report le	ocation clea	rly and in acco	rdance with an	y State req	uirements)	)*	WC					
At surface N	E NE			in the second		4		11. SEC., T., R., OR AREA	, M., OR BLOCK AND SURVE				
At stop prod. int	erval reporte	ed below	NE NE			\$							
							:						
At total depth	NE NE		· .	14	1 ,	DATE IS	CHEN	Sec. 5 1	T41S R26E				
				14. PERMIT NO.		DATE IS		PARISH					
5. DATE SPUDDED			D   17. DATE CO		o prod ) 1	1		RT, GR, ETC.)*	1 Utah 19. ELEV. CASINGHEAD				
10/4/64	10/25/		11/16		, p, ca, ,	4787	i i	9 KB	4787				
), TOTAL DEPTH, MD	l		T.D., MD & TVD	·	TIPLE COM		23. INTERVALS	ROTARY TOOLS					
5553			49	How M			DRILLED BY	0-5553	0				
PRODUCING INTER	VAL(S), OF			TTOM, NAME (1	MD AND TVI	·)*		1 0 0000	25. WAS DIRECTIONAL				
*			•	,: `	*	A A ST			SURVEY MADE				
5540-55	45 Perfs	s. Low	er Ismay				7		No				
S. TYPE ELECTRIC A					<del> </del>		:	2	7. WAS WELL CORED				
IES-G	R. S. C	•					1		No				
3. ,			CASING	RECORD (Rep	ort all stri	igs set in	well)		23				
CASING SIZE	WEIGHT,	LB./FT.	DEPTH SET (	MD) HO	LE SIZE	19188	CEMENTING	RECORD	AMOUNT PULLED				
13 3/8"	48		153	1'	7 <u>1</u> ''		150		0				
8 5/8"	25 2	24	1422		11"		100						
5½"	15	<b>.</b> 5#	5552		7''	3.4	100		0				
					11		í L						
). <u> </u>		LINE	RECORD				30.	TUBING RECOR					
SIZE	TOP (MD)	BOTT	OM (MD) SA	CKS CEMENT*	SCREEN	(MD)	SIZE	DEPTH SET (MD)					
							2"	5460	5460				
	nonn / Fudouii	al sine and	mum bon)		<u> -</u>				GOVERNOR DEG				
. PERFORATION REC	CORD (Interve	ui, size ana	number		32.			TURE, CEMENT					
EE40 EE	45 mi+b	OU MOE	TT Vone	Shote		O-5545	` '	500 gals.	OF MATERIAL USED				
5540-55	49 MICH	ZO NCF	II Kone	Shors		0-30-20	<u>,                                    </u>	JOU gals.					
i													
					<del></del>	· <del></del>							
3.*			<del>, , ,                                </del>	PRO	DUCTION		;		*				
ATE FIRST PRODUCT	ION :	PRODUCTION	METHOD (Flow			re and typ	e of pump)		TATUS (Producing or				
11/13/64		Flo	wing			17.		shut-i	m) Prod.				
ATE OF TEST	HOURS TES		HOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BÉI		GAS-MCF.	WATER-BBL.	GAS-OIL RATIO				
11/16/64	24	Ì	17/64		271		162E	47	600E				
LOW. TUBING PRESS.	W. TUBING PRESS.   CASING PRESSURE			OIL—BBL.	GAS	M CF	WATER	ER-BBL. OIL GRAVITY-API (CORR					
500	800		4-HOUR RATE	271		162E		47	370				
4. DISPOSITION OF G	AS (Sold, use	ed for fuel, r	ented, etc.)				. 1	TEST WITNESS					
Fuel for		r						Ben Ste	vens				
5. LIST OF ATTACH	MENTS					dia.	* ! *		经免费证券 等事选择的				
	48-7-18-2				:		lataum ! 3 &-	0 01 0-010-1	onda				
6. I hereby certify Zoller &						12.1	etermined from	all avallable rec	orus				
SIGNED		12. V.	عالمان	TITLE	Pres			DATE	Mar. 30,19				
V-111111			<u> </u>										

# **INSTRUCTIONS**

General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, and one all states, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see frem 35.

Hem 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State requirements, locations on Federal or Indian land should be described in other spaces on this form and in any attachments. The state is specific instructions.

Hem 25 and 24: If this well is completed for separate production from more than one interval completion, so state in item 22, and in item 24 show the producing interval in the separate report (page) bottom (s) and name(s) (if any) for only the interval conditional interval to be separated records showing the additional show the details of any multiple stage cementing and the location of the cementing tool.

Hem 35: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

KIBRS	TOP	рветн твов уват. рветн	Came	<u> </u>	* / / / / / / / / / / / / / / / / / / /			80		37	47				1	7				3. a.	и (п. 18 г.) ЭгФ 18 г.)	- 1	
38. GEOLOGIC MARKERS		NAME MEAS, DEPTH	Chinle 1520	Shinarump 2422	Moenkopi 2596	Dechelly 2718	Organ Rock 281(	Hermosa 4538	Upper Ismay 5434	ζ.	TD 5547		73.	The second secon					100 100 100 100 100 100 100 100 100 100				
CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING A AND SHUT-IN PRESSURES, AND RECOVERIES	DESCRIPTION, CONTENTS, ETC.	Drilled 11' porous Limestone	#1	32". Chean oil 35". Pulled pipe. 2nd	nd 2040' fluid-Reversed out-	C.	below sud.	ISIP 1 hr. 2206#	FSIP 1 hr. 2176#	FP 623-1247#	BHT 1360	Water-90,000 PPM											
MARK OF POROUS ZONES: MARK OF PONTENTS THEREOF DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWIN	BOTTOM	78			WT 1		. i.),					2					2						
OF FORCUS ZONES: ALL IMPORTANT ZONES OF POR INTERVAL TESTED, CUSHION	TOP	5537	,		100			17 T				1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1						848 - - -			-8.5		\ \ \ 
ST. SUMMARY OF PORC SHOW ALL IMPOR DEPTH INTERVAL	FORMATION.	Lower Ismay	12 - E	2-3-1-2 2-3-1-2 3-1-3-1-3-1-3-1-3-1-3-1-3-1-3-1-3-1-3-1	en Co		4. 1.			N											Take 191	10 TO	



FORM OGCC-8-X

app fe

(Deligation of the Silving

STATE OF UTAH
OIL & GAS CONSERVATION COMMISSION
348 EAST SOUTH TEMPLE
SUITE 301
SALT LAKE CITY, UTAH

#### REPORT OF WATER ENCOUNTERED DURING DRILLING

*,	NT-Kimbark Explora Arapahoe Drilling		Denver, Colo.	_
Location NI	1 ½ NE ½ Sec. 5	T.41 S R. 26	E San Juan	County, Utah
Water Sands:	:			
1	Depth	<u>Volum</u>	<u>e</u>	Quality
From	То	Flow Rate o	r Head	Fresh or Salty
1. 840	850	2" steam		brackish
2.				And Marke to
2	•		2	一種の計算。現在1953年 日間数 - 「全計算上でも
4.	• 15 H H S S			(2) (2) (2) (3) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4
5.				
~ ·		(Cont	inued on reverse	e side if necessary)

#### Remarks:

- NOTE: (a) Upon diminishing supply of forms, please inform the Commission
  - (b) Report on this form as provided for in Rule C-20, General Rules and
  - Regulations and Rules of Practice and Procedure. (See back of form)
    (c) If a vater analysis has been made of the above reported some, please forward a copy along with this form.

Form 9-331 (May 1963)		TATES -	SUBMIT IN DLICA (Other instr. s on	
		THE INTERI	OR verse side)	5. LEASE DESIGNATION AND SERIAL NO.
	GEOLOGICA	L SURVEY		14-20-603-708
	RY NOTICES AND			6. IF INDIAN, ALLOTTEE OR TRIBE NAME
(Do not use this fo	rm for proposals to drill or Use "APPLICATION FOR PE	to deepen or plug b RMIT—" for such p	ack to a different reservoir.	Navajo Tribal
OIL X GAS GAS	OTHER			7. UNIT AGREEMENT NAME
2. NAME OF OPERATOR	MONSANTO COMPAN	Y		8. FARM OR LEASE NAME South Ismay
3. ADDRESS OF OPERATOR	101 North Marie	nfeld, Midl	and, Texas <b>7</b> 9701	9. WELL NO.
4. LOCATION OF WELL (Rep See also space 17 below At surface	ort location clearly and in ac	ecordance with any	State requirements.*	10. FIELD AND POOL, OR WILDCAT - McElmo Mesa
NE /4	NE/4 Section 5			11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
				Sec. 5, T-41S, R-26E
14. PERMIT NO.		s (Show whether DF, 799 KB	RT, GF, etc.)	12. COUNTY OR PARISH 13. STATE San Juan Utah
16.	Check Appropriate Bo	x To Indicate N	ature of Notice, Report, o	or Other Data
NO	CICE OF INTENTION TO:		SUB	SEQUENT REPORT OF:
TEST WATER SHUT-OFF	PULL OR ALTER	CASING	WATER SHUT-OFF	REPAIRING WELL
FRACTURE TREAT	MULTIPLE COMPI	LETE	FRACTURE TREATMENT	ALTERING CASING
SHOOT OR ACIDIZE REPAIR WELL	ABANDON*		SHOOTING OR ACIDIZING	ABANDONMENT*
	CHANGE PLANS to Water Dispose	a1 x	(Other) (Nore: Report res	ults of multiple completion on Well
17. DESCRIBE PROPOSED OR CO	MPLETED OPERATIONS (Class)	v state all partingut	doto: la and sine nestinent de	empletion Report and Log form.) tes, including estimated date of starting any
proposed work. If w nent to this work.) *	ell is directionally drilled, gi	ve subsurface locati	ions and measured and true ver	tes, including estimated date of starting any rtical depths for all markers and zones perti-
Community Contil	T			그 그를 고리하다 맞아 취임되는 것
5486 <b>-</b> 93; 5497-	ismay #i to a war	ter disposal	well through pres	ent perforations at 5540-45
5400-55, 5457	-5502.			
Produced water	will be disposed	d through 2	7/8" 6.5# J-55, EU	E Tubing set at 5400' with
a tension pack	er.			
Application is	being made for S	State approv	al and this work s	hould be started in Sep-
tember, 1973.	, 0	der de la constant de	di dito dillo wolk b	Total be scaled in Sep-
* .				
	,			
•	•			
18. I hereby certify that the	foregoing is true and corre	7		
SIGNED	E. M. Scholl	TITLE	District Engineer	DATE 8/20/73
(This space for Federal				
APPROVED BY		TITLE		
CONDITIONS OF APPR	OVAL, IF ANY:	11111		DATE
		-		3 9 3 A 2 3 3 3 4 3 5 5 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6

MB

## **Monsanto**

MONSANTO POLYMERS & PETROCHEMICALS CO.

317 First Savings & Loan Building 101 North Marienfeld Midland, Texas 797C1 Phone: (915) 683-3306

August 20, 1973

The State of Utah Oil & Gas Conservation Commission 1588 West North Temple Salt Lake City, Utah 84116

Attn: Mr. C. B. Feight
Executive Director

RE: Application for Water Disposal

Monsanto Company South Ismay No. 1

NE/4 NE/4 Section 5, T-41S, R-26E

McElmo Mesa Field San Juan County, Utah

#### Gentlemen:

Monsanto Company respectfully requests approval to dispose of water into the Ismay Interval of South Ismay No. 1 in McElmo Mesa Field, San Juan County, Utah.

Produced water is presently being disposed into Monsanto Navajo A-3 under the provisions of the Commission's Order No. 125-1. Navajo A-1 is also a disposal well by Administrative approval. Water production now exceeds the capacity of Navajo A-3 and A-1 and it is necessary to convert South Ismay No. 1 to disposal service. South Ismay No. 1 was temporarily abandoned by Kimbark Operating Company. Monsanto Company is taking over operations of this well.

In compliance with Rule C-11 the following is submitted:

- 1. Attached is a plat showing the location of the proposed disposal well including all wells in the McElmo Mesa Area.
- 2. The names of lessees within one-half mile of the proposed disposal well are also attached.
- 3. It is proposed to inject water into the Ismay interval of the Paradox formation in the Hermosa Group located from 5476 to 5548 (T.D.), on the Neutron Log. Depths are measured from the rotary bushing elevation of 4799' above sea level. A copy of a portion of this log is attached. The Ismay interval is a vugular type limestone and dolomite rock.

Page 2 The State of Utah August 20, 1973

- 4. A diagram of the casing is attached. Navajo A-1 was drilled in November, 1964 and completed with 5½" casing set with 100 sacks of cement and successfully pressure tested.
- 5. At the present time, it is proposed to inject about 400 barrels of water per day produced from wells in the McElmo Mesa Field. Maximum anticipated injection rate is 1500 barrels per day. From time to time it may be necessary to dispose of waters from present or future wells in the nearby area but not necessarily in the McElmo Mesa Field.
- 6. Attached is a certification that copies of this Application have been sent by registered mail to each lessee listed within one-half mile radius of the proposed injection well.

Monsanto Company respectfully submits this Application and hopes the Commission will administratively approve water disposal into South Ismay No. 1 under the provisions of Rule C-11 of the General Rules and Regulations.

The United States Geological Survey approval is also being sought for disposal into South Ismay No. 1 subject to like approval from the Oil and Gas Conservation Commission.

Yours very truly,

MONSANTO COMPANY

F. M. Scholl

District Engineer

EMS:mm

Encls.

cc to: U.S.G.S.

P.O. Box 959

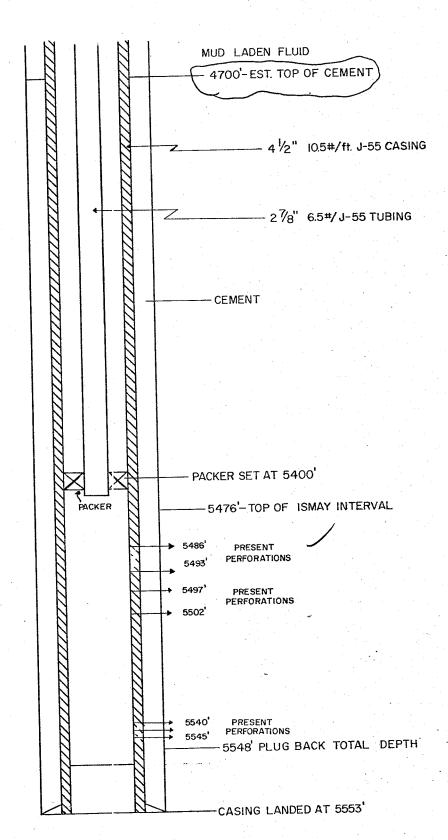
Farmington, New Mexico 87401

EXHIBIT 4

#### CASING DIAGRAM

#### MONSANTO CO. - So. ISMAY No. I

MC ELMO MESA FIELD San Juan County, Utah



#### CERTIFICATION

I certify that on August 20, 1973, copies of Monsanto Company's Application for water disposal into South Ismay No. 1, McElmo Mesa Field, San Juan County, Utah, were sent by registered mail to the following lessees:

Texaco, Inc.

P.O. Box 2100

Denver, Colo. 80201

Amoco Production Co.

Security Life Bldg. Denver, Colo. 80202

Doyle H. Baird

Writers Center II, Suite 110

1805 South Bellaire Denver, Colo. 80222

Warrior Oil Company

Suite 801, 1776 Lincoln Street

Denver, Colo. 80203

Zoller & Danneberg

1600 Broadway - Suite 1360

Denver, Colo. 80202

C. Crady Davis

1038 Guaranty Bank Bldg.

Denver, Colo. 80202

The Kimbark Company

288 Clayton Street Denver, Colo. 80206

State of Texas

County of Midland )

The foregoing instrument was acknowledged before me this 20th day of August 1973, by E. M. Scholl.

My Commission Expires: June, 1975

## Monsant<sub>o</sub>

MONSANTO POLYMERS & PETROCHEMICALS CO.

317 First Savings & Loan Building 101 North Marienfeld Midland, Texas 79701

Phone: (915) 683-3306

August 20, 1973

U.S. Geological Survey P.O. Box 959 Farmington, New Mexico 87401

Attn: Mr. P. T. McGrath

RE: Navajo Tribal Lease #14-20-603-708 South Ismay No. 1 NE NE Section 5, T-41S, R-26E McElmo Mesa Field San Juan County, Utah

#### Gentlemen:

Monsanto Company respectfully requests U.S.G.S. and Navajo Tribe approval to convert South Ismay No. 1 to a salt water disposal well in the Ismay formation.

The well has been temporarily abandoned by Kimbark Operating Company.

The present disposal system for McElmo Mesa consists of Navajo A-1 and A-3 and is at capacity. It is necessary to obtain excess capacity by converting South Ismay No. 1 to disposal service.

We are also applying to the State for their administrative approval.

Yours very truly,

MONSANTO COMPANY

E. M. Scholl

District Engineer

EMS:mm

cc to: Utah Oil & Gas Conservation Commission

1588 West North Temple

Salt Lake City, Utah 84116

Attn: C. B. Feight

9.0

## Monsanto

MONSANTO POLYMERS & PETROCHEMICALS CO. 317 First Savings & Loan Building 101 North Marienfeld Midland, Texas 79701 Phone: (915) 683-3306

August 20, 1973

The State of Utah Oil & Gas Conservation Commission 1588 West North Temple Salt Lake City, Utah 84116

Attn: Mr. C. B. Feight
Executive Director

RE: Application for Water Disposal
Monsanto Company
South Ismay No. 1
NE/4 NE/4 Section 5, T-41S, R-26E
McElmo Mesa Field
San Juan County, Utah

#### Gentlemen:

Monsanto Company respectfully requests approval to dispose of water into the Ismay Interval of South Ismay No. 1 in McElmo Mesa Field, San Juan County, Utah.

Produced water is presently being disposed into Monsanto Navajo A-3 under the provisions of the Commission's Order No. 125-1. Navajo A-1 is also a disposal well by Administrative approval. Water production now exceeds the capacity of Navajo A-3 and A-1 and it is necessary to convert South Ismay No. 1 to disposal service. South Ismay No. 1 was temporarily abandoned by Kimbark Operating Company. Monsanto Company is taking over operations of this well.

In compliance with Rule C-11 the following is submitted:

- Attached is a plat showing the location of the proposed disposal well including all wells in the McElmo Mesa Area.
- 2. The names of lessees within one-half mile of the proposed disposal well are also attached.
- 3. It is proposed to inject water into the Ismay interval of the Paradox formation in the Hermosa Group located from 5476 to 5548 (T.D.), on the Neutron Log. Depths are measured from the rotary bushing elevation of 4799' above sea level. A copy of a portion of this log is attached. The Ismay interval is a vugular type limestone and dolomite rock.

Page 2 The State of Utah August 20, 1973

- 4. A diagram of the casing is attached. Navajo A-1 was drilled in November, 1964 and completed with  $5\frac{1}{2}$ " casing set with 100 sacks of cement and successfully pressure tested.
- 5. At the present time, it is proposed to inject about 400 barrels of water per day produced from wells in the McElmo Mesa Field. Maximum anticipated injection rate is 1500 barrels per day. From time to time it may be necessary to dispose of waters from present or future wells in the nearby area but not necessarily in the McElmo Mesa Field.
- 6. Attached is a certification that copies of this Application have been sent by registered mail to each lessee listed within one-half mile radius of the proposed injection well.

Monsanto Company respectfully submits this Application and hopes the Commission will administratively approve water disposal into South Ismay No. 1 under the provisions of Rule C-11 of the General Rules and Regulations.

The United States Geological Survey approval is also being sought for disposal into South Ismay No. 1 subject to like approval from the Oil and Gas Conservation Commission.

Yours very truly,

MONSANTO COMPANY

E. M. Scholl

District Engineer

EMS:mm

Encls.

cc to: U.S.G.S.

P.O. Box 959

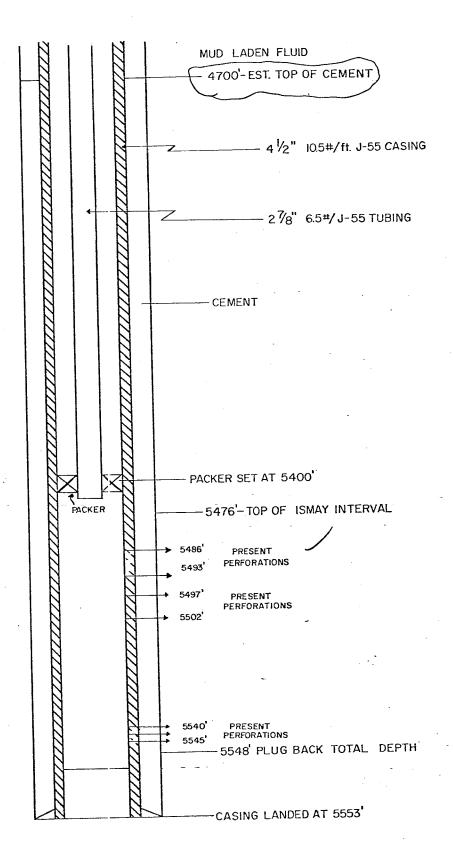
Farmington, New Mexico 87401

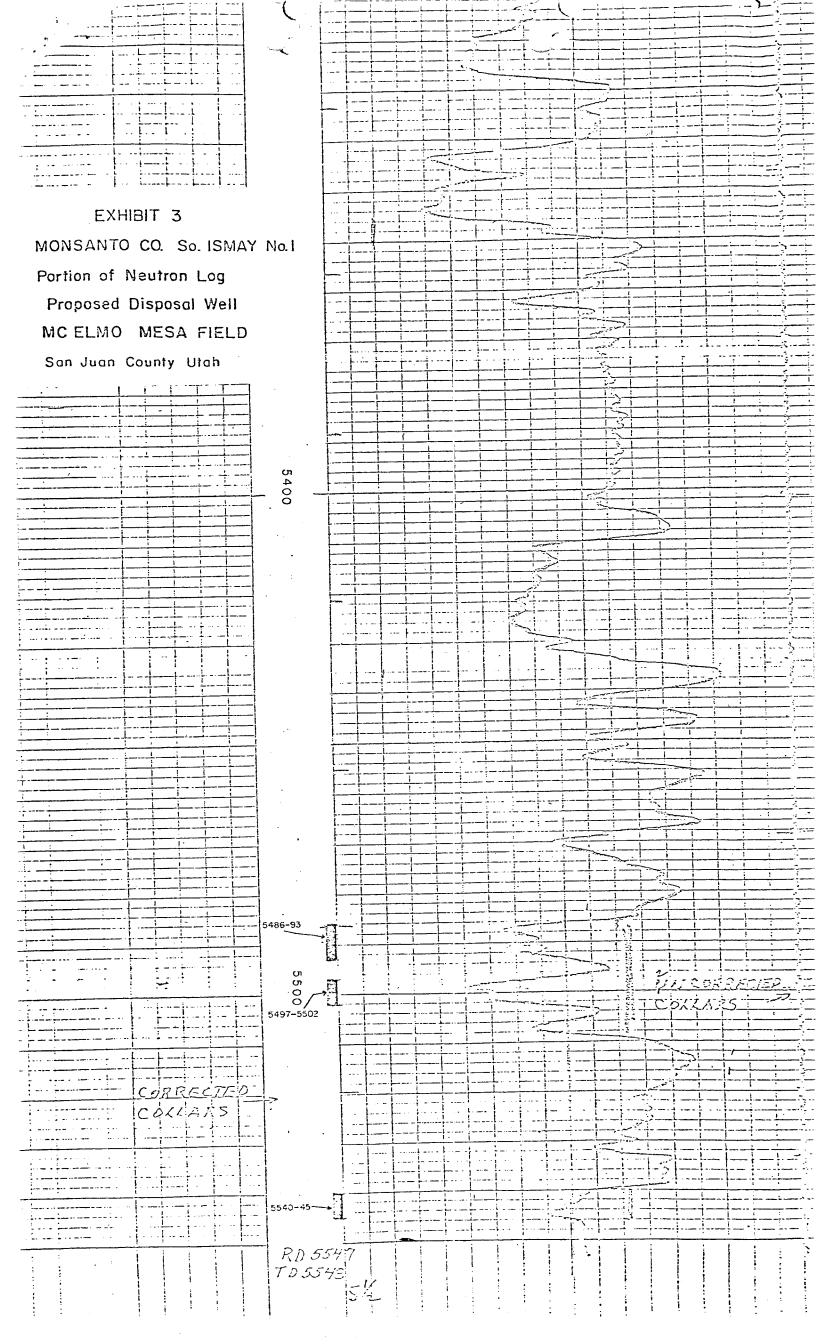
EXHIBIT 4

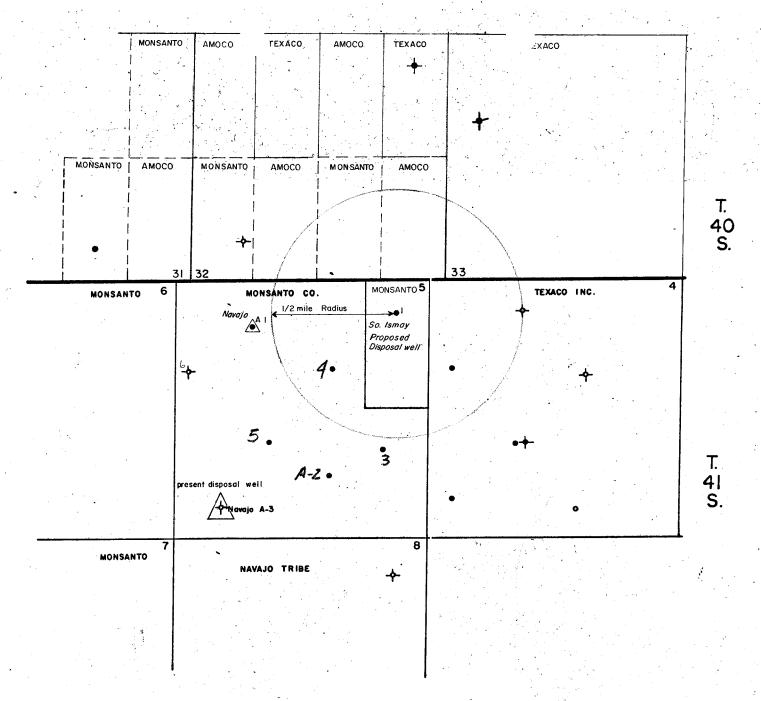
CASING DIAGRAM

MONSANTO CO. - So. ISMAY No. I

MC ELMO MESA FIELD San Juan County, Utah







R. 26 E.

### MC ELMO MESA FIELD

San Juan County, Utah Scale: 1" = 2000'

PROPOSED DISPOSAL WELL PLAT

**EXHIBIT** I

#### EXHIBIT 2

List of Lessee's within one-half mile radius of Monsanto Company South Ismay No. 1 Proposed Injection well

Texaco, Inc.

Amoco Production Co.

Doyle H. Baird

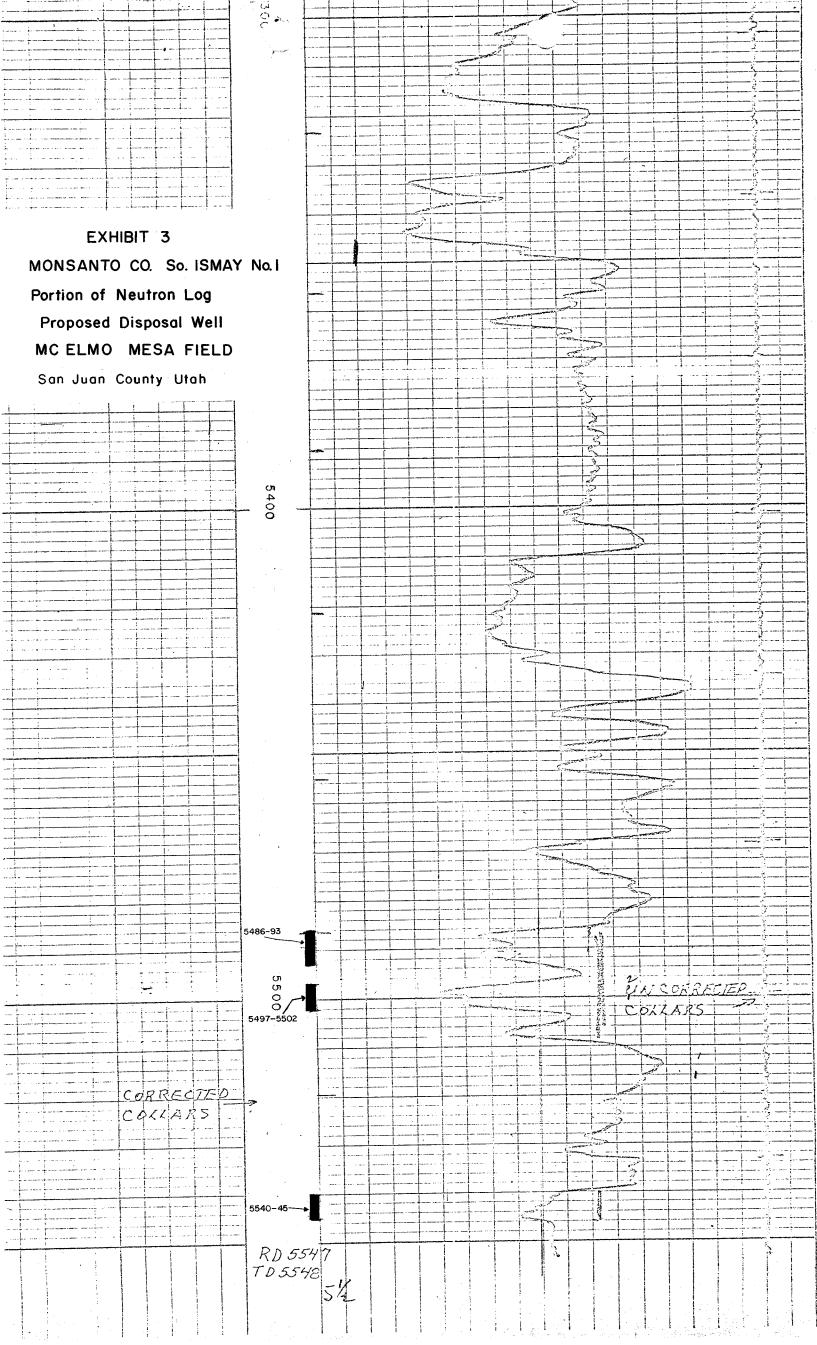
Warrior Oil Company

Zoller and Danneberg

C. Crady Davis

The Kimbark Operating Company

\*Kimbark Operating Company is not a lessee of record but does operate the interests owned by the Kimbark Company and its assigns.



PAR

August 23, 1973

Monsanto Company 101 North Marienfeld Midland, Texas 79701

> Re: Application for Water Disposal South Ismay No. 1 Sec. 5, T. 41 S, R. 26 E, San Juan County, Utah

#### Gentlemen:

Please be advised that insofar as this office is concerned, approval is hereby granted to utilize the above well for water disposal purposes.

Said approval given in accordance with the provisions of the Order issued in Cause No. 125-1.

Very truly yours,

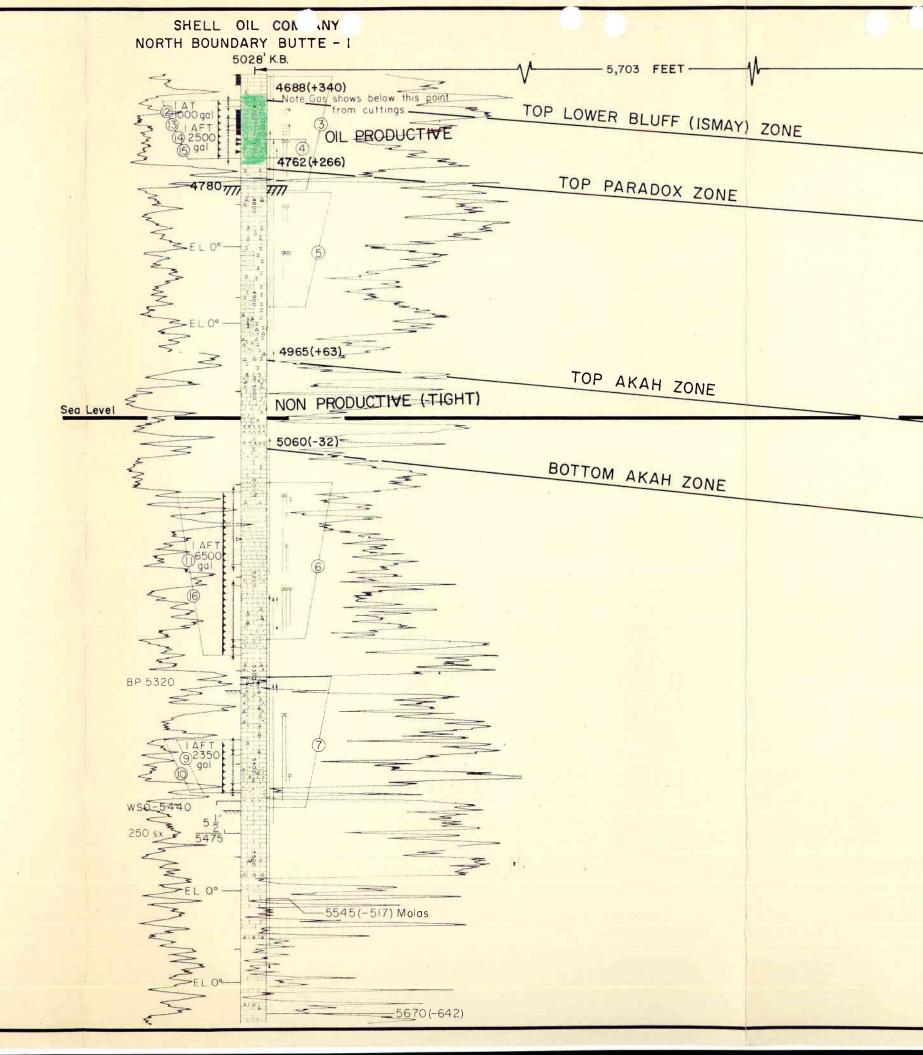
DIVISION OF OIL & GAS CONSERVATION

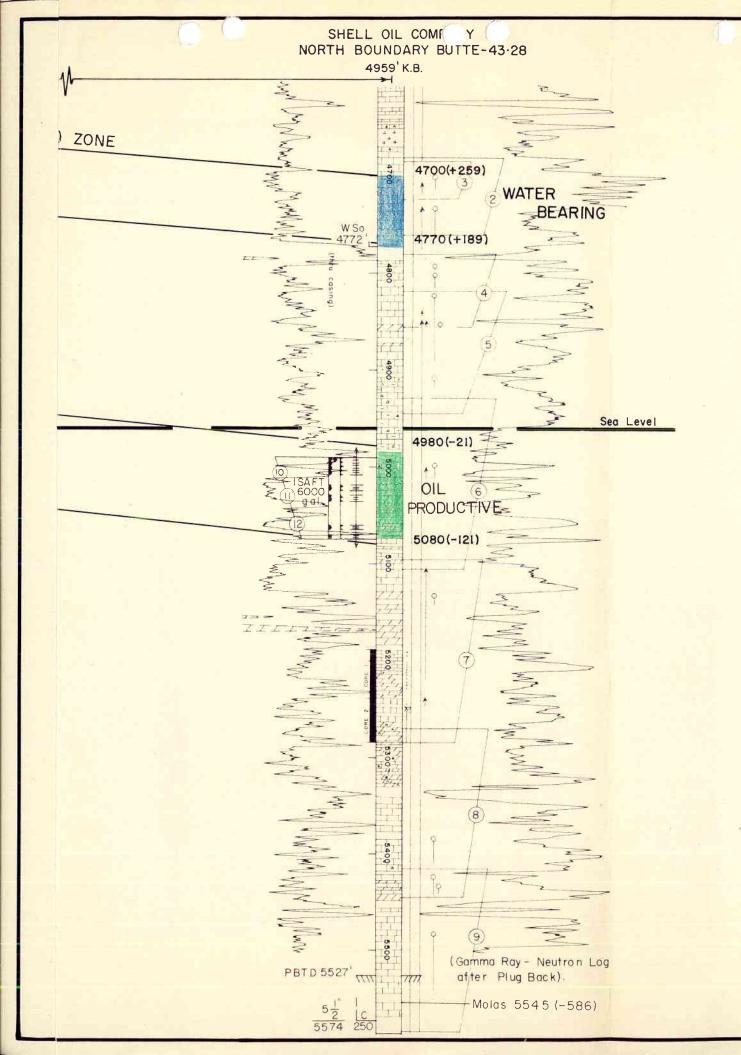
CLEON B. FEIGHT DIRECTOR

CEF:sd

cc: U. S. Geological Survey

				Gas to surface 4 min., rate 1160 MCF/D, plugged at surface	
				efter 17 min. Shut in, removed top joint, olew oil and kee	
3	DST	4562	150 64	630' (6.7 bbl.) 40° cil (cut0.6-34% esam) TPP 1215, FPP 1230, SIP 1650 (nearly stab. 70 min.), HP 2325	11-55
(4)	DST	1,733	811	Sour ges to surface 2 min., rate 450 MCF/D; oil to surface 10 min., eve. rate 913 B/D, cut 0.1-5.5%, 38° API	
4)	:531	4731 4749	8 <u>4</u>	Sour gas to surface 2 min., rate 450 Mer/F; 517 Mer 33,000 1FP 750, rete 913 8/D, cut 0.1-5.5%, 38° API 33,000 1FP 750, rFF 1110, SIP 1545 (stab. immed.), HP 2340 150	11-55
(5)	PST	4787 4910	<u>273</u> 20,70	Gas to surface 21 min., rate nil. 230' (1.3 bil.) SGM 200 IPP 180, FPP 180, SIP 1520 (stab. 45 min.), HP 2420 150	11-55
6	DST	5098 5265	150 20,70	Ges to surfece 5 min., rate 115 MOF/D. 790' (7 bbl.) VOOM & Oll (stem headed), 39° API wet. 150 IPP 230, FFP 355, ISIP 1820, FSIP 1762, HP 3500	11-55
7	DST	5307 5447	150 20,70	Gas to surface 25 min., rate nil. 290' (2.1 bbl.) V3CM 150 IFP 119, FFF 140, ISIP 1802, FSIP 1822 (stab. 60 min.), HP 27 150	17 11-55
8	DST	5807 5930	145 20,75	350' (4.7 bbl.) GWM, 270' (3.6 bbl.) GMW, 600' (5.6 bbl.) W 73,000 IFP 135, FFP 525, ISIP 2100, FSIP 1965 (atab. 40 min.), HP	3030 H1-55
9	3	5374 5430	1½ h	Failed, swebbing line parted.	111-55
	A PT	Trest	ed 5374-5 allons re	430 with 504 gellons regular acid, 924 gallons Jel X 500, giler seid.	
10	F	5374 5430	9 <u>h</u> 2 h	48 B/D gross, 98% cut + 400 MSF/D 5/8" 100,000 150	111-55
	AFT	Treat 3,000	ed 5108-5 gallons	282 with 500 gellons regular soid, 3,000 gellons Jel X 500, regular soid.	
11	F	5108 5282	20h 4 h	216 B/D gross, 6% out + 480 MCF/D 5/8" 38° ARI 150,000 150	111-55
(12)	S	4588 4750	3 h	4 swab runs, recovered 1 bbl. oil on first run.	111-55
	ΛT	Treat	ed 4688-L	750 with 1,000 gallons regular scid.	
13)	F	4688 4750	31 <u>1</u> 5 h	216 B/D gross, 12% out + 1420 MOF/D 40.5° APT 33,500 150	111-55
	AFT 2	Trest	ed 4688-1 gellons	1750 with 250 gellons Fix-a-frec, 500 gellons acid XF-32, Jel X 500, 1,000 gellons acid XF-32.	
				71 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	
14	F	4688 4750	25h	Finel rate 312 B/D gross, 16% out + 4700 MCF/D 29,000	111-55
14)	F F		25h 10∳h		111-55
		4750 4688 4750	10½h	29,000	





1 NST 13980 Missrum

11-56 1165 2979 95m 35' (0.28)M

11-56 1165 2979 95m NsCl HF 2260, IFBHP/FFBHP 150/200

500 ppm NsCl HF 2260, IFBHP/FFBHP 150/200

500 ppm NsCl HF 2560, IFBHP/FFBHP 150/20m

11-56 1.760 375-3m 1650 ppm NsCl HF 2520, IFBHP/FFBHP 380/1100

77,500 ppm NsCl HF 2520, IFBHP/FFBHP 380/1100

11-56 1.760 375-3m 1650 ppm NsCl HF 2520, IFBHP/FFBHP 50/50m

11-56 1.724 3000 ppm NsCl HF 2520, IFBHP/FFBHP 50/50m

10-56 1.724 3000 ppm NsCl HF 2520, IFBHP/FFBHP 50/50m

10-56 1.724 3000 ppm NsCl HF 2520, IFBHP/FFBHP 50/50m

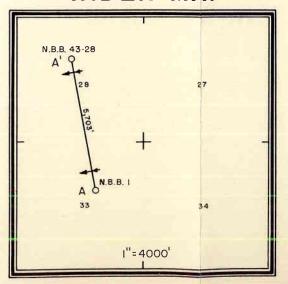
10-56 1.725 1

Treated selected intervals in the gross interval 4990-5073 with 500 gals. acid (XF-32), 1500 gals. acid petrofrac, 2500 gals. acid (XF-32), 1500 gals. acid petrofrac with 1000# sand.

## (11) PT 111-8-56 4990 212.5 B/D + 65 MCF/D 291.58 340 API (12) Completed on pump, representative initial rate not yet established.

10 PT 111-7-56 4990 Well swebbed off to 0 B/D in 8h 11h

#### INDEX MAP



#### EXHIBIT IV

SHELL OIL PACIFIC COAST AREA

CORRELATION SECTION
NORTH BOUNDARY BUTTE
DATUM: SEA LEVEL

SAN JUAN COUNTY, UTAH

VERTICAL SCALE: I"=100'

DATE NOV. 1960
BY M.W. McGARRY
APPROVED M.W.M.

K20-097

PRODUCTION



#### P. O. Drawer 1857 Roswell, New Mexico 88201

September 13, 1973

Monsante Company
317 Piret Saving & Loan Building
/101 No. Marienfeld
Midjand, Texas 79701

Attention: E. M. Scholl, District Engineer

#### Gentlemen:

As set forth in your request, the existing two water disposal wells are not adequate to handle the produced waters from the field. Existing perforations would be utilized for injection below a packer set on tubing at 5400 feet.

Your request to utilize the well No. 5 for a disposal well for salt water from the McElmo field is hereby approved subject to like approval by the Utah Oil and Gas Conservation Commission. Any deviation from the proposal submitted should receive prior approval.

Sincerely yours,

CARL C. TRAYWICK Acting Area Oil & Gas Supervisor

cc:
Utah Oil & Gas Conservation Commission
Farmington

## STATE OF UTAH DIVISION OF OIL, GAS, AND MINING ROOM 4241 STATE OFFICE BUILDING SALT LAKE CITY, UTAH 84114 (801) 533-5771

FORM NO. DOGM-UIC-1 (Revised 1982)

San Juan

(801) 533-5771 (RULE I-5 & RULE I-4)

	179		
INST	The Tree Tree T	معالم المحادة الأدراء	431
	小儿童		
		91	
	German	****	
	99	100)	E

	DIVIS	ION OF
IN THE MATTER OF THE APPLICATION OF  Monsanto Oil Company	CAUSE NOOIL, GAS	8 MINING
ADDRESS Suite 600, 5613 DTC Parkway,		
Englewood, CO ZIP 80111	ENHANCED RECOVERY INJ. WELL	
INDIVIDUAL PARTNERSHIP CORPORATION X FOR ADMINISTRATIVE APPROVAL TO DISPOSE OR	DISPOSAL WELL	
INJECT FLUID INTO THE South Ismay #1 WELL	LP GAS STORAGE EXISTING WELL (RULE 1-4)	
SEC. 5 TWP. 41S RANGE 26E		<del></del>

#### **APPLICATION**

Comes now the applicant and shows the Corporation Commission the following:

COUNTY, UTAH

1. That Rule I-5 (g) (iv) authorizes administrative approval of enhanced rovery injections, disposal or LP Gas storage operations.

Lease Name	ease Name Well No.			Field		County		
South Ismay		1		McE1mo	Mesa	Sa	n Juan	
ocation of Enhanced Recovery					/10		-	061
njection or Disposal Well NE, N		Sec	<u> </u>		Twp41S_	<del></del>	Rge	26E
New Well To Be Drilled Yes □ No 阪 Yes □			erted No⊠		Casing Test Yes	⊠ No [	Date Augu	<u>ıs</u> t 197
Depth-Base Lowest Known Fresh Water Within ½ Mile 2470  Does Injection Zone Coil-Gas-Fresh Water				Mile YES	NO □		State What Oil and	l Gas
Secretion of 5486 1 – 931, Injection Source(s) 5540 1 – 451	, 5497	'-5502',	Geolog and D	ic Name(s) epth of Sour	Paradox-He ce(s) 5540'- 5486'-	rmosa 45', 93',	5497 <b>'-</b> 550	21,
Geologic Name of njection Zone Paradox (	(Ismay	)	Depth	of Injection,	to5493 <b>'</b>			
a. Top of the Perforated Interval:	486 <b>'</b>	b. Base of Fresh	ı Water:	2470	Intervening This	kness (a	minus b) 301	.6
is the intervening thickness sufficient to without additional data?				ed .		- pr		
Lithology of Intervening Zones Sa	andsto	ne, Carbon	ate					
njection Rates and Pressures	Maxii	num			1000 1800	B/E		
The Names and Addresses of Those to	Whom No	tice of Application	on Should	d be Sent.	·			
			,					
Colorado				(zEl			nal Produ	ction I
Arapahoe		)		926 H. J. E	bner Ap	plicant		etion l
Before me, the undersigned nown to me to be the person walk/states/ that he is duly auth	hose na norized	me is subscrit to make the	oed to t	he above i	bner Ap eared <u>K.</u> instrument, w	plicant  J. El	bner g by me dul	y sworn (
Before me, the undersigned nown to me to be the person walk/states/ that he is duly auth	hose na horized rue and	me is subscrit to make the d correct.	bed to t above	he above i report and	bner Ap eared <u>K.</u> nstrument, w I that he has	plicant  J. El	bner g by me dul	y sworn (
Before me, the undersigned nown to me to be the person wath states, that he is duly autherein, and that said report is t	hose na horized rue and	me is subscrit to make the d correct.	bed to t above	he above i report and	bner Ap eared <u>K.</u> nstrument, w I that he has	plicant  J. El	bner g by me dul	y sworn (

- 1. Attach qualitative and quantitative analysis of representative sample of water to be injected and a qualitative and quantitive analysis of the injection formation of water.
- 2. Attach plat showing subject well and all known oil and gas wells, abandoned, drilling and dry holes within one-half mile, together and with the name of the operator(s).
- 3. Attach Drillers Log (Form DOGM-UIC-2). (Appropriate Surety must be on file with Conservation Division or appropriate government agencies.)
  - 4. Attach Electric or Radioactivity Log of Subject well (if released).
- 5. Attach schematic drawing of subsurface facilities including; Size, setting depth, amount of cement used measured or calculated tops of cement surface, intermediate (if any) and production casings; size and setting depth of tubing; type and setting depth of packer; geologic name of injection zone showing top and bottom of injection interval.
- 6. If the application is for a NEW well the original and six (6) capies of the application and three (3) complete sets of attachments shall be mailed to the Division. For EXISTING well applications (Rule I-4) only ONE copy of the application and ONE complete set of attachments are required to be mailed to the Division.
- 7. The Division is required to send notice of application to he surface owner of the land within one-half mile of the injection well and to each operator of a producing leasehole within one-half mile of the injection well. List all required names and addresses in the appropriate space provided on the front of this form.
- 8. Notice that an application has been filed shall be published by the Division in a newspaper of general circulation in the county of publication before the application is approved. The notice shall include the name and address of applicant, location of proposed injection or disposal well, injection zone, injection pressure and volume. If no written objection is received within 15 days from date of publication the application may be approved administratively.
- 9. A well shall not be used for injection or disposal unless completed machine accounting Form DOGM-UIC-3b is filed by January 31st each year.
- 10. Approval of this application, if granted, is valid only as long as there is no substantial change in the operations set forth in the application. A substantial operation change requires the approval of a new application.
  - 11. If there is less intervening thickness required by Rule I-5 (b) 4, attach sworn evidence and data.
- 12. For enhanced recovery projects, information required by Rule I-4 which is common to more than one well, need be reported only once on the application.

#### CASING AND TUBING DATA

NAME OF STRIN	IG SIZE	SETTING DEPTH	SACKS CEMENT	TOP OF CEMENT	TOP DETERMINED BY
Surface	13-3/8"	153'	150	Surface	Returns
Intermediate	8-5/8"	1422'	200	Surface	Returns
Production	5-1/2"	5553 <b>'</b>	200	4700'	Estimation
Tubing	2-7/8"	5476	Name Baker Loc-Se	- Type - Depth of	Tubing Packer
Total Depth 5553'	Geologic Name - Inj. Paradox–Ismay	Zone Dept	h - Top of Inj. Int 5486		- Base of Inj. Interval 5545

FORM NO. DOGM-UIC-8 (1981)

## STATE OF UTAH DIVISION OF OIL, GAS AND MINING Room 4241 State Office Building Salt Lake City, Utah 84114 (801) 533-5771

#### INVENTORY OF AUTHORIZED EXISTING ENHANCED RECOVERY WELLS

NAME OF WELL	STATUS*	LOCATION OF WELL	AUTHORIZING ORDER NO.	FORMATION NAME	MAX. AUTH. INJECTION RATE (BPD)	MAX. AUTH. INJECTION PRESS. (PSI)	DEPTH OF INJECTION
S. Ismay #1		Sec. 5-T41S-R26E		Paradox	1000	1800	5540'-45'
		NE NE					5497'-5502'
							5486'-93'
			44-				
Navajo "A" #1		Sec. 5-T41S-R26E	7 2 11 7 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Paradox	1500	1800	5700'-30'
		NE NW					
		,					97 98 98
Navajo "A" #3		Sec. 5-T41S-R26E		Hermosa	1500	1800	5912'-18'
		SW SW					
							49.
			**************************************				
						·	

٠		1	t	2	r	Δ	n	O	
٠	•	v	·	u	•	C	μ	v	
•	•		٠	•	٠	_	۲	~	

Monsanto 0il Company, Suite 600

\*TA = Temp. Aband. SI = Shut In Op = Operating Regional Production Mgr.

Address:

5613 DTC Parkway

K. J. Ebner

Englewood, CO 80111

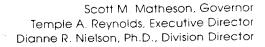
October 13, 1983

Signature of Duly Authorized Representative

Date

## 

Operator: Monounts	Well No. South Joney # 1
County: <u>Som Januar</u> T 415 R 20	68 Sec. 5 API# 43-037-16269
V	Well 🗶 Enhanced Recovery Well
	YES NO
UIC Forms Completed	
Plat including Surface Owners, and wells of available record	
Schematic Diagram	
Fracture Information	
Pressure and Rate Control	
Adequate Geologic Information	
Fluid Source	Parado
Analysis of Injection Fluid	Yes No TDS
Analysis of Water in Formation to be injected into	Yes No TDS
Known USDW in area	Maraja Depth 2470
Number of wells in area of revi	ew <u>3</u> Prod. <u>2</u> P&A /
	Water $O$ Inj. $O$
Aquifer Exemption	Yes NA 1
Mechanical Integrity Test	Yes No
	DateType
Comments: 70C 4700	
At 1	





4241 State Office Building • Salt Lake City, UT 84114 • 801-533-5771

September 18, 1984

Monsanto Oil Company 5613 DIC Parkway, Suite 600 Englewood, Colorado 80111

Gentlemen:

RE: McElmo Mesa Field Water Injection

With your permission, I would like to make arrangements to meet with a representative from your company to inspect and guage the casing tubing annulus pressure on the following water injection wells located in <u>Section 5</u>. Township 41 South, Range 26 East, SLBM, San Juan County, Utah:

Navajo A-1 (NENW) Navajo A-3 (SWSW) South Ismay #1 (NENE)

Please have your representative contact me by phone: (801) 533-5771.

Thank you,

C.B. Feight
UIC Manager

CBF/mfp 030

# STATE OF UTAH DIVISION OF OIL, GAS AND MINING 4241 State Office Building Salt Lake City, Utah 84114

### WELL INTEGRITY REPORT

DATE	5/8/85	CO	MPANY/OPER	ATOR	Monsanto	
	Water Disposal Well x Enhanced	Recovery Well	1	Other	·	
API	Well Number 43-037-16269	. Field	Name			
SEC	TOWNSHIP41S RANGE	26E WELL	NAME/NUME	BER South	Ismav #1	
	se Name/Number <sub>14-20-603-708</sub> Locat				<b>-</b> ···	•
		* * * *				<u> </u>
TNT	TIAL CONDITIONS:					* .
	LongostringoRate/Pressure: 0	bw/d	0	psi	Not ini	ecting
- 0.0	xShortoStringoRate/Bressurexx				NOC III)	secing
	Csg-tbg Annulus Pressure:	0	psi	<del></del>	•	
CON	DITIONS DURING TEST:					
Tubing	Short string Pressure 20  Csg-tbg Annulus Pressure 300	_psi		Time:	<u>12:53</u> to	1:22
	Amount of water added to annulus:	b	bls			
AFT	ER ANNULUS BLEED OFF:					
Fubing	Long String Pressure: 0	_psi			·	
	Shortostringo-Bressure:	_psi				
	Csg-tbg Annulus Pressure: 0	<del></del>				
	REMARKS: <u>Injection facility pum</u>	being repair	<u>ced at tim</u>	e of test	. CTA hel	dat 300 ps
-	but had slight pressure build up	in tubing.	At 1:22 PM	bled off	50 psi fr	om_CTA
	Tubing pressure dropped to 4 psi	Have small	<u>leak in e</u>	ither pacl	ker or tub	ing.
	Operator will be allowed to inject	ct into this v	well until	either t	ne Navajo	A-1_
	or A-3 is repaired.					
						<del>-</del>
	Howard Jones Operator Representative (Name)		C.B. UIC FIEL	Feight D INSPECT(	OR (Witnes	s)
					· ·	
			HILL FIEL	H INCOUNT	ID WITHOU	C 1

### UTAH DIVISION OF OIL, GAS AND MINING CASING-BRADENHEAD TEST

OPERATOR:MC	nsanto Co	mpany	· · · · · · · · · · · · · · · · · · ·				
FIELD: Mc	Elmo Mesa	·		_LEASE:	N.V. 14-20	-603-708	
WELL #sc	outh Ismay	1 NENE		_SEC5	_TOWNSHIP_	41s RANGE	26E
STATE FED.	FEE DEPI	TH 5553	TYP	E WELL WIT	MAX.	INJ. PRESS	3000
TEST DATE	10/23/8	4		•			
CASING STRING	SIZE	SET AT	CMT	PRESSURE READINGS	REMARKS		FUTURE
SURFACE	13 3/8"	153	150 sx	<u> </u>			-
INTERMEDIATE	8 5/8"	1422	<u>100</u> sx	<u> </u>	Bradenhea	d not dug d	out
PRODUCTION	5 1/2"	5552	<u>100</u> s:	x 0 psi	CTA blew	down in 3	sec-no liquids
							•
TUBING	2 7/8"	_5400	Pack		Injection	pressure a	at <u>pump 50 psi</u>
REMARKS:			11 8 1-			ma aba ale	
ır	njection p	ressure s	nouta c	e much nig	her - will	recheck	
		•	· .				
					,		
				·			
<del></del>							
					·		
					·		

### STATE OF UTAH

SUB IN TRIPLICATE\*
(Other instructions on reverse side)

DEPARTMENT OF N	IATURAL RE	SOURCES	reverse side ;		
DIVISION OF OIL	, GAS, AND	MINING	5	. LEASE DESIGNATION	AND BERIAL NO.
			ŀ	21-000708	
SUNDRY NOTICES AND (Do not use this form for proposals to drill or Use "APPLICATION FOR PI	D REPORTS to deepen or pleRMIT—" for suc	ON WELLS  by back to a different reserve proposed to the propo	i	. IF INDIAN, ALLOTTI	E OR TRIBE NAM
OIL GAR C		rece and the	UW 187	UNIT AGREEMENT N	AMB
WELL WELL OTHER Water Di	isposal We	<del></del>			V=
•		JUN 0	ଥ 1986 🎏	FARM OR LEASE NA	
BHP Petroleum Company Inc.	· · · · · · · · · · · · · · · · · · ·			South Ismay	
· · · · · · · · · · · · · · · · · · ·	Englewood	CO 80111 DIVISIO		1	
5613 DTC Parkway, Suite 600, LOCATION OF WELL (Report location clearly and in a See also space 17 below.)	ccordance with	any State requiremented	MINING 1	O. FIELD AND POOL,	R WILDCAT
At surface				McElmo Mesa	
Sec. 5-T41S-R26E			1	1. SEC., T., R., M., OR SURVEY OR ARE.	BLK. AND
Sec. 3-1415-R26E					
		·		5-41S-26E	-1-10
4303716269 16. BLEVATIO	NS (Show whethe	r DF, RT, GR, etc.)	1	2. COUNTY OR PARIS	
4505710207	<del> </del>			San Juan	Utah
Check Appropriate Bo	ox To Indicate	Nature of Notice, Re	port, or Oth	er Data	
NOTICE OF INTENTION TO:		1	aurarquen'	T REPORT OF:	
TEST WATER SHUT-OFF PULL OR ALTER	CASING	WATER SHUT-OF	• [	REPAIRING	WELL
FRACTURE TREAT MULTIPLE COME	<b>—</b>	FRACTURE TREAT	MENT	ALTERING (	ASING .
SHOOT OR ACIDIZE ABANDON*		SHOUTING OR AC	IDIZING	ABANDONME	NT*
REPAIR WELL CHANGE PLANS		(Other) Name	e Change o	of Operator	X
(Other)		(Note: Re Completion	eport results of nor Recompletic	multiple completion in Report and Log fo	on Well rm.)
Monsanto Oil Compa	ny acquire	ed by BHP Petrole	eum Compar	ny Inc.	
	•				
I hereby certify that the foregoing is true and only	Foct				<del></del>
SIGNED Sernard A. Wirth	TITLE _	Regional Land	Manager	DATE May	30, 1986
(This space for Federal or State office use)					

TITLE .

DATE \_

NATURAL RESOURCES
OIL, GAS AND MINING

Ph. (801)538-534

### NOTICE OF TRANSFER OF OWNERSHIP

Present operator: BHF	Petroleum(A	mericas)Inc.	Telephon	e:_303_850_9090
Address: 5613 DTC Pa	rkway Suite (	600		
city: Englewood			0111	•
well no.:1,3,4,5	(South Ismay Le	ease)Field	or_Unlt name: <u>M</u>	cElmo Mesa
sec.: 5 Twp.: 418	Rng.: 26E Cou	nty: San Juan	Lease n	•. <u>14-20-603-⊕708</u>
Effective date of trai	nsfer:7/20/	87 MM C	y	
	· .	ignature of fire 9/3/07	sent operator	
New operator: Cross  Address: P.O. Box 44				•
city: Farmington		.M. Zip:	12 12	t L. Hand
	· _	8/24/87		
The approval of th	is transfer :	is subject to 515-3-1 of the	the e Oil	
and Gas Conservati	on General Ru	ules.	APPROV OF UTA	ED BY THE STATE AH DIVISION OF S, AND MINING

### STATE OF UTAH DIVISION OF OIL, GAS AND MINING

		5. LEASE DESIGNATION 4 SERIAL NO. 14-20-603-708
SUNDRY NOTICES AND REPORTS (Do not use this form for proposals to drill or to deepen or plug Use "APPLICATION FOR PERMIT—" for su	back to a different reservoir.	6. IF INDIAN. ALLOTTEE OR TRIBE NAME
OIL GAS OTHER Stock Tank Va	apor Test 21 1990	7. UNITAGREEMENT NAME
2 NAME OF OPERATOR Cross Creek Corporation	Division of OL. GAS & Minin	8. FARM OR LEASE NAME South Ismay
3. ADDRESS OF OPERATOR P.O. Box 1957, Duncan, Ok. 73534-1	·	9. WELL NO.
4. LOCATION OF WELL (Report location clearly and in accordance with any State re	quirements.	10. FIELD AND POOL, OR WILDCAT - MCLlmo Hesa
Cross Creek Corp.		11. SEC., T., R., M., OR BLK, AND SURVEY OR AREA
43-037-20072 South Garnay #3-Po		5,41s,26e
J	r, GR, etc.)	San Juan UT.
13-037-20087 South Carray #4 -50		er Data ent report of:
43-037-16269 South Jamay #1 - W 43-037-20117 Navaje A-1 - WD 43-037-20164 Navaje A-3 - WI	(Other Stock (Note: Report results o Completion or Recom	REPAIRING WELL  ALTERING CASING  Jank ABANDONMENT*  VAPOR Test  f multiple completion on Well pleuon Report and Log form.)  12-17-90
43-037 20167 Nutrigo 11 9	all pertinent details, and give pe	rtinent dates, including estimated date of
pertinent to this work.)		evertical depths for all markers and zones unied by a cement verification report
Kiva Measuring, Inc. 49 Road 5500 Bloomfield, N.M. 6322762	must be decomp.	
Gastec Precision Gas Protector Sys Gas Analysis H2S Extra Low RAnge 10 to 120 PPM	stem	
Produced Water Tank #2 21 PPM Produced Water Tank #1 13 PPM Produced Oil Tank 3 PPM		· .
Vent SW#1 SW#2	cflow <b>∜</b> Vent	TREATER
	<b>-</b>	
Vent Oil  18. I hereby certify that the foregoing is true and correct	Pit	
SIGNED Parma Hand TITLE	Clerk .	DATE
(This space for Federal or State office use)		
APPROVED BY TITLE CONDITIONS OF APPROVAL, IF ANY:		DATE

### STATE OF UTAH DIVISION OF OIL, GAS AND MINING

· · · · · ·		S. LEASE DESIGNATION & SERIAL NO.
		14-20-603-708
SUNDRY NOTICES AND	REPORTS ON WELL	6. IF INDIAN. ALLOTTEE OR TRIBE NAM
(Do not use this form for proposals to drill or to	deepen or plug back to a differen	
	ERMIT—" for such proposals.)	1. UNIT AGREEMENT NAME
OIL GAS WELL OTHER Water Disp	oosal Well	
NAME OF OPERATOR		8. FARM OR LEASE NAME
Cross Creek Corporation		South Ismay
. ADDRESS OF OPERATOR	,	9. WELL NO.
P.O.Box 1957 Duncar, Ok. 73534		#1
<ul> <li>LOCATION OF WELL (Report location clearly and in accordance See also space 17 below.)</li> </ul>	e with any State requirements.	10. FIELD AND POOL, OR WILDCAT
660' s/n 660' w/e		McElmo Mesa
At proposed prod. zone		SURVEY OR AREA
	•	NENE .
4. API NO. 15. ELEVATION	S (Show whether DF, RT, GR, etc.)	5.41S.26E   12. COUNTY   13. STATE
4303716269	•	San Juan Ur
		·
	x To Indicate Nature of Noti	
NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:
TEST WATER SHUT-OFF PULL OR ALTER CA	SING WATER S	HUT-OFF REPAIRING WELL X
FRACTURE TREAT MULTIPLE COMPLET	TE FRACTUS	RE TREATMENT ALTERING CASING
SHOOT OR ACIDIZE ABANDON	SHOOTIN	G OR ACIDIZING ABANDONMENT*
REPAIR WELL X CHANGE PLANS	(Othe:)	ote: Report results of multiple completion on Well
(Other) Pressure Test		ompletion or Recompletion Report and Log form.)
APPROX. DATE WORK WILL START $3/8/91$	DATE ()F	F COMPLETION
2/26 Notice was given by phone.	•	* Must be accompanied by a cement verification repo
3 /8 Pulled tubing. Replaced packer	and various joints of	tubing. Reset packer and pressured
& 3/9/91 back side with packer flu		for over thirty minutes. Test ok.
Back in operation.		
		RECEIVED
		MAR 1 4 1991
	•	MAN
		DUUDION OF
		DIVISION OF
		OIL GAS & MINING
	•	
	•	
18. I hereby certify that the foregoing is true and correct		
SIGNED Jarma Hand	TITLE Clerk	DATE 3/12/91
(This space for Federal or State office use)		
fritte abane our - contem as a sens attract many		
APPROVED BY	TITLE	DATE

## DIVISION OF GIL, GAS AND MINING

		14-20-603-708
SUNDRY NOTICES AND REPORTS (Do not use this form for proposals to drill or to deepen or plug to Use "APPLICATION FOR PERMIT—" for such	ack to a different recommon	6. IF INDIAN. ALLOTTEE OR TRIBE NAME  Navajo Tribal
WELL GAS OTHER Annual Report of	Shutin Wells	1. UNIT AGREEMENT NAME
2 Name of Operator		8. FARM OR LEASE NAME
Cross Creek Corporation  ADDRESS OF OPERATOR		South Ismay/Navajo'A
P.O.Box 1957 Duncan, Ok. 73534	•	3. WELL NO.
4. LOCATION OF WELL (Report location clearly and in accordance with any State req.  See also space 17 below.)	utrements.	# 1
At surface		McElmo Mesa
At proposed prod. zone		11. SEC., T., R., M., OR BLK, AND SURVEY OR AREA
4. API NO. ILS ELEVATIONS IN		5,418,26E
43-037-1626.9	F, RT, GR, etc.)	12 COUNTY 13. STATE
		San Juan Ut
Check Appropriate Box To Indicate N	lature of Notice, Report or O	ther Data
notice of intention to:	•	QUENT REPORT OF:
TEST WATER SHUT-OFF PULL OR ALTER CASING		
FRACTURE TREAT MULTIPLE COMPLETE	Water Shut-off Fracturi: Treatment	. REPAIRING WELL
SHOOT OR ACIDIZE ABANDON	SHOOTING OR ACIDIZING	ALTERING CASING ABANDONMENT*
REPAIR WELL CHANGE PLANS	(Other)	
Annual Report of Shutin Wells	(Note: Report results	of multiple completion on Well empletion Report and Log form.)
APPROX. DATE WORK WILL START	DATE OF COMPLETION	impletion Report and Log form.)
starting any proposed work. If well is directionally drilled, give subsurf pertinent to this work.)		panied by a cement verification repor
A proposal plan for repair will	be submitted for	approval to all
agencies by March 1; 1992.		•
·		
		TOTAL CALLANTING AND
		Manage
•		FIND O A 1000
		JAN 2 1 1992
	•	
		DIVISION OF OIL GAS & MINING
•		Children a Charlette
18. I hereby certify that the foregoing is true and correct		
	lerk .	DATE 1-16-92
(This space for Federal or State office use)		
4 200 0 1100 0 11		· .
CONDITIONS OF APPROVAL, IF ANY:		DATE

### STATE OF UTAH DIVISION OF OIL, GAS AND MINING

PHONE CONVERSAT	ION DOCUMENTATION	ON FORM	
✓ This is the original form □ or a copy □			
Route this form to:      WELL FILE  Section Township Range  API number	☐ SUSPENSE  Return date  To: initials		XX OTHER OPERATOR FILE CC: JRB
Date of phone call: 2-2-00	Т	ime: <u>10:47</u>	AM
0001			Initiated call? □
Spoke with:	•		
Name BERTHA SPENCER			_ Initiated call?
of (company/organization)BIA/WINDOW ROCK AZ		Phone no	(520)871 <del>2</del> 5938
THE OPERATOR (CURRENT LESSEE) RECOGNIZ  S NOW RESPONSIBLE FOR THE ABOVE LEASE.	ED BY THE BIA IS AMO	CO PRODUCTIO	ON COMPANY. AMOCO
MS. SPENCER INFORMED ME THAT AMOCO IS	PLANNING ON PLUGGING	THE WELLS.	IAREQUESTED SOME
FORM OF DOCUMENTATION REGARDING THE INFORMATION (SEE ATTACHED)		LETTER SHE	SENT TO KRYSTAL ENER

#### **AUTOMATIC TELEFAX**

DATE: February 3, 2000

LOCATION: BUREAU OF INDIAN AFFAIRS Navajo Area Office (Mail Code: 543) Window Rock, Arizona 86515
INFORMATION OR ASSISTANCE NO.: (520) 871-5938
NUMBER OF DOCUMENTS (Including cover sheet): _2
TO THE ATTENTION OF: Kirsten Risbeck - Utah Oil & Gas Mining
Office Phone Number: (801) 538-5281
TELEFAX NO.: (801) 359-3940
FROM: Bertha Spencer, Realty Specialist - Minerals & Mining Section Office Phone Number: (520) 871 5028
Office Phone Number: (520) 871-5938
Telefax Number: (520) 871-5943
ACTION ACTION DISCRIPTION AND A 11 11 CM A 1 M A

MESSAGE OR INSTRUCTIONS: <u>Attached is a copy of the letter that went to Krystal Energy</u>. If you have any questions, you can call me at the above number.

FAXED BY: Been TIME: 11:00 fr

#### XXXXXXXXXX NAVAJO REGION P. O. BOX 1060 Gallup, New Mexico 87305-1060

**RRES/543** 

DEC 08 1999

#### CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Mr. Bruce Nicholson Krystal Energy P.O. Box 3897 Window Rock, Arizona 86515

Dear Mr. Nicholson:

We are returning the proposed Assignment of Mining Lease for Navajo Tribal Oil and Gas Lease No. 14-20-603-708 between Amoco Production Company and Krystal Energy, Inc. and the proposed Assignment of Oil and Gas Lease Operating Rights between Cross Creek Corporation and Krystal Energy, Inc., without action.

By letter dated October 20, 1999 from the Navajo Nation Minerals Department, we have been advised not to process the above proposed assignments for approval at this time because Krystal Energy is currently not eligible to obtain a lease under the Navajo Nation law and due to other concerns of the Navajo Nation.

Therefore, upon receipt of this notice, you are directed to immediately cease all operation on the above lease. By a copy of this letter, the current lessee, Amoco Production Company, is instructed to immediately take over operation of the subject lease.

If you have any questions, please contact Ms. Bertha Spencer, Realty Specialist at (520) 871-5938 or Birnal Shrestha of Navajo Nation Minerals Department office at (520) 871-6587

Sincerely,

#### GENNI DENETSONE

**《1777年893**》 Regional Director

#### Enclosures

cc:

Amoco Production Company, POB 800, Denver, CO. 80222 - CERTIFIED MAIL Navajo Nation Minerals Department Bureau of Land Management, Attn: Steve Mason, Farmington Field Office Linda Taylor, SH/RES

Heverse



Michael O. Leavitt Governor Kathleen Clarke Executive Director Lowell P. Braxton Division Director 1594 West North Temple, Suite 1210 PO Box 145801 Salt Lake City, Utah 84114-5801 801-538-5340 801-359-3940 (Fax) 801-538-7223 (TDD) F\_ED 3/3/2000

43.037.16269

March 3, 2000

Ms. Bertha Spencer Bureau of Indian Affairs Navajo Area Office (Mail Code: 543) Window Rock, Arizona 86515

Re: Oil & Gas Operations on Lease No. 14-20-603-708

Dear Ms. Spencer:

It was recently brought to my attention that the B.I.A. has returned, without action, a proposed Assignment of Mining Lease for the above referenced Navajo Tribal Oil and Gas Lease between Amoco Production Company and Krystal Energy, Inc., along with a proposed Assignment of Oil and Gas Lease Operating Rights between Cross Creek Corporation and Krystal Energy, Inc. The Bureau has also instructed Amoco, as current lessee, to immediately take over operation of the lease.

The Division of Oil, Gas and Mining intends to contact Amoco to request that they commence submitting various production and status reports for wells located on this lease. Our files, however, do not contain any documentation regarding lease assignments, or of Amoco's involvement with this lease. I am therefore writing to request, if possible, that copies be sent to the Division of any B.I.A. records pertaining to the following matters:

- 1. Documents that identify Amoco as the current lessee;
- 2. Documents that show which wells Amoco is responsible for (our records indicate that there are three oil wells and three water disposal wells located in this lease area);
- 3. Any monthly production and injection reports pertaining to the wells in this lease that are in your possession or readily available to you for the reporting periods of April 1999 to present.

Page 2 Ms. Bertha Spencer Lease No. 14-20-603-708 March 3, 2000

Your assistance in obtaining copies of these records will be greatly appreciated. If there are costs or complications pertaining to this request, please feel free to contact me at 801-538-5275, or by email at dstaley@state.ut.us. Thank you very much.

Sincerely,

Don Staley

Information Services Manager

Oil and Gas

cc: J.R. Baza

K.D. Risbeck

Well Files:

South Ismay 1 (API 43-037-16269) 5-41S-26E

South Ismay 3 (API 43-037-20072) 5-41S-26E

South Ismay 4 (API 43-037-20087) 5-41S-26E

South Ismay 5 (API 43-037-20134) 5-41S-26E

Navajo A-1 (API 43-037-20117) 5-41S-26E

Navajo A-3 (API 43-037-20164) 5-41S-26E

# Division of Oil, Gas and Mining PHONE CONVERSATION DOCUMENTATION FORM

	original/copy to:	Пантапа		Other	
(Loc.)	SecTwpRngNo.)			South Ismey Nevejo A-1 Nevejo A-3	
1.	Date of Phone Call:	)-03	Time:		
2.	DOGM Employee (name) Talked to:  Name	(☐Initiated Ca			
3.	Topic of Conversation: _mis	ssing injection up	lumes E. annual es or Krystal Er	reports.	
4.	Highlights of Conversation:  Lease 14-20-603-708  No injection for Agr  No injection for Gas  Wells PAID by Remod  Steve Mason (Blm  No injection info.  Will fax PA info.  Blm awaiting 5  Cross Creek Ris. in  Never affrord as	:1-Dic. 1999  n-Dic. 2000  to 10/2000 s. 9/  - Farmington Hm/  for above month  2-4-2003 (fectors)	12000. (No PA). 505-599-63. hs. 24-03 See we	nfo. available	-

Form 3160-5 (June 1990)  UNITED STATES DEPARTMENT OF THE INTERI BUREAU OF LAND MANAGEMI		of the interior	Budget Barners No. 1004-0135 Expiret: March 31, 1993  5. Lense Designation and Serial No.
			14-20-603-708
Do not use		AND REPORTS ON WELLS If or to deepen or reentry to it different reservoir. I PERMIT—" for such proposals	6. H Indias. Allottes or Tribe Name NAVAJO TRIBAL
		IN TRIPLICATE	7. If Unit or CA, Agreement Designation
77.00	Ges Wall WATER II		8. Well Name and No. SOUTH ISMAY #1
2. Name of Ope AMOCO PRO	ODUCTION COMPANY A	TTN: MELISSA VELASCO-PRICE	9. API Well No. 43-037-16269
7. Address and P.O. BOX	Telephnos No. 3092 HOUSTON TX 7 Well (Footage, Set., T., R., M., or Survey Do	7253 (218)366-2548	10. Pield and Poel, or Expioratory Assa  MCELMO MF.SA  11. County or Paridh, State
660' FNL	, 660' FEL SECTION	5, T-41S, R-26E	SÁN JUAN, UTAH
12. C	CHECK APPROPRIATE BOX	B) TO INDICATE NATURE OF NOTICE, REPO	ORT, OR OTHER DATA
	TYPE OF SUBMISSION	TYPE OF ACTIO	<u> </u>
	Notice of Insent	Abandonment  Recompletion	Change of Plans New Construction
	Subsequent Report	Plugging Back Casing Repair	Non-Rantine Practuring Water Shar-Off
	Firm! Abandonment Notice	Altering Casing	Conversion to Injection  Dispace Water (Note: Report results of studiciple completion on Well Completion or Recompletion Report and Log form.)
13. Describe Pr	roposed or Completed Operations (Clearly state absurface locations and measured and true vert	all persisent details, and give pertinent dates, including estimated date of sta- cical depths for all markers and some partis on to this work.)*  ONED THE ABOVE WELL WITH THE PI	ring any proposed work. If well is directionally drilled.
4-13-98			
SEE ATT	ACHED REPORT FOR DE	TAILED INFORMATION.	
			070 FW
		Approved as to plugging of the well bore. Liability under bond is retained until surface restoration #-60m/deted. [2] [] []	1.119
	ENTERED AFMSS	Surace restoration 1	IS PR 2: 4:
:-	2009	FEB 4 2003	
BY_	Sm	DIV OF OIL, GAS & M	INING
	The LIVA VOIDUCOPE	ice THE PERMITTING ASST	Dets 10-10-00
Signed (This sp	uce for Pederal or State office use)		:(XIPTED FOR RECOR
Approvi Conditio	our of approval, it sub:	Tide	
		rson knowingly and willfully to make to any department or agency of the	United States any false, fictitions or franchism statement
Tide 18 U.S	S.C. Section (001, makes it a crime for any pe	1200 Ellowingha distractions on services on and another services	

#### P&A OPERATION CEMENT SERVICE REPORT

WELL NAME: SOUTH ISMAY #1

TOTAL PLUGS SET: 8

DATE STARTED: 09-21-00

TOTAL SACKS USED: 352 SX

DATE COMPLETED: 10-03-00

BI.M WITNESS: M. KECMAN OPERATOR WITNESS: R. CANDELARIA

MOL AND RU RIG. ND WELLHEAD AND NU BOP. POH AND LD 193 JTS (5108.79') 2 7/8" TBG. RIH WITH GAUGE RING AND TAGGED AT 5125'. POH. PU AND STRAP IN HOLE WITH 2 3/8" TBG AND TAGGED FILL AT 5229'.

PLUG #1 (ISMAY, 4960' – 5229'), CIRCULATED HOLE CLEAN WITH WATER. BALANCED 17 SX INSIDE CSG. PUH AND WOC. RIH AND TAGGED TOC AT 5203'. BLM CHANGE IN PROCEDURE. TOPPED OFF PLUG WITH 52 SX + 2% CaCl. POH AND WOC. RIH TAGGED TOC AT 4960'.

PLUG #2 (HERMOSA, 4077' – 4590'), RIH AND PERFORATED SQUEEZE HOLES AT 4590', POH. PU AND RIH WITH RETAINER AND SET AT 4558'. ESTABLISHED INJECTION RATE AT 0 BPM WITH 2000 PSI. PRESSURE LEAKED OFF SLOWLY. STUNG OUT AND SPOTTED 65 SX CL. IS CEMENT TO END OF TBG. STUNG INTO RETAINER AND SQUEEZED 10 SX BELOW RETAINER TO 2000 I'SI. STUNG OUT AND BALANCED 55 SX ON TOP OF RETAINER. POH AND WOC. RIH AND TAGGED TOC @ 3956'.

PLUG #3 (DECHELLY, 2457' - 2720'), RIH AND PERFORATED SQUEEZE HOLES AT 2720'. POH. PU AND RIH WITH RETAINER AND SET AT 2684'. ESTABLISHED INJECTION RATE AT 0 BPM WITH 1800 PSI AND SLOW LEAK OFF. MIXED 56 SX CL. B CEMENT PLACING 26 SX ABOVE AND 30 SX BELOW RETAINER, SQUEEZING PERFORATIONS TO 1600 PSI. POH.

PLUG #4 (CHINLE, 1498' – 1570'), RIH AND PERFORATED SQUEEZE HOLES AT 1571'. POH. PU AND RIH WITH RETAINER AND SET AT 1525'. ESTABLISHED INJECTION RATE AT O BPM WITH 1800 PSI. BLM CHANGE IN PROCEDURE. MIXED 45 SX, PLACING 28 SX ABOVE AND 17 SX BELOW RETAINER, SQUEEZING PERFORATIONS TO 1900 PSI, 8 5/8" SHOE NOT COVERED. PUH TO 1498' AND REVERSE 25 SX OUT TO MAKE TOO AT 1498', CASING COMMUNICATED THROUGH THE 8 5/8" AND 13 3/8" ANNULAS. POH. RIH AND TAGGED TOP OF RETAINER AT 1571'. EPA CHANGE IN PROCEDURES. (CHINLE, 1460' – 1565'), PUH AND PERFORATED SQUEEZE HOLES AT 1565'. POH. PU AND RIH WITH RETAINER AND SET AT 1525'. ESTABLISHED INJECTION RATE AT 0 BPM WITH 1800 PSI AND SLOW LEAK OFF. MIXED 28 SX CL. B CEMENT, PLACING 21 SX BELOW AND 7 SX ABOVE RETAINER AND SQUEEZING PERFORATIONS TO 1600 PSI. POH.

PLUG #5 (8 5/8" SHOE, 1322' – 1430'), EPA CHANGE IN PROCEDURES. RIH AND PERFORATED SQUEEZE HOLES AT 1430'. POH. PU AND RIH WITH RETAINER AND SET AT 1377'. ESTABLISHE INJECTION RATE INTO PERFORATIONS WITH WATER AT 0 BPM WITH 2000 PSI AND SLOW LEAK OFF. MIXED 25 SX CL. B CEMENT, PLACING 3 SX BELOW AND 22 SX ABOVE RETAINER, SQUEEZING PERFORATIONS TO 1900 PSI. POH. RIH WITH WIRELINE AND TAGGED TOC AT 1144'.

PLUG #6 (SURFACE, 0' – 210'), PUH AND PERFORATED SQUIEZE HOLES AT 210'. PU AND RIH WITH RETAINER AND SET AT 147'. CIRCULATED 5 ½" CLEAN WITH WATER. CLOSED CSG VALVE AND CIRCULATED 8 5/8"x5 ½" ANN. CLEAN WITH WATER. CLOSED 8 5/8" VALVE AND ATTEMPTED TO CIRCULATE 13 3/8" ANN. BUT COMMUNICATED OUT OF CSG FLANGE. MIXED 64 SX CL B CEMENT, PLACING 40 SX BELOW TO CIRCULATE GOOD CEMENT TO SURFACE OUT THE 8 5/8" CSG AND 24 SX ABOVE RETAINER TO CIRCULATE GOOD CEMENT TO SURFACE INSIDE THE 5 ½" CSG. DUG CELLAR AND CUT OFF WELLHEAD, CEMENT AT SURFACE. RD RIG AND INSTALLIED DRY HOLE MARKER.

NATHAN E. CRAWFORD.
P&A SUPERVISOR